

Windows

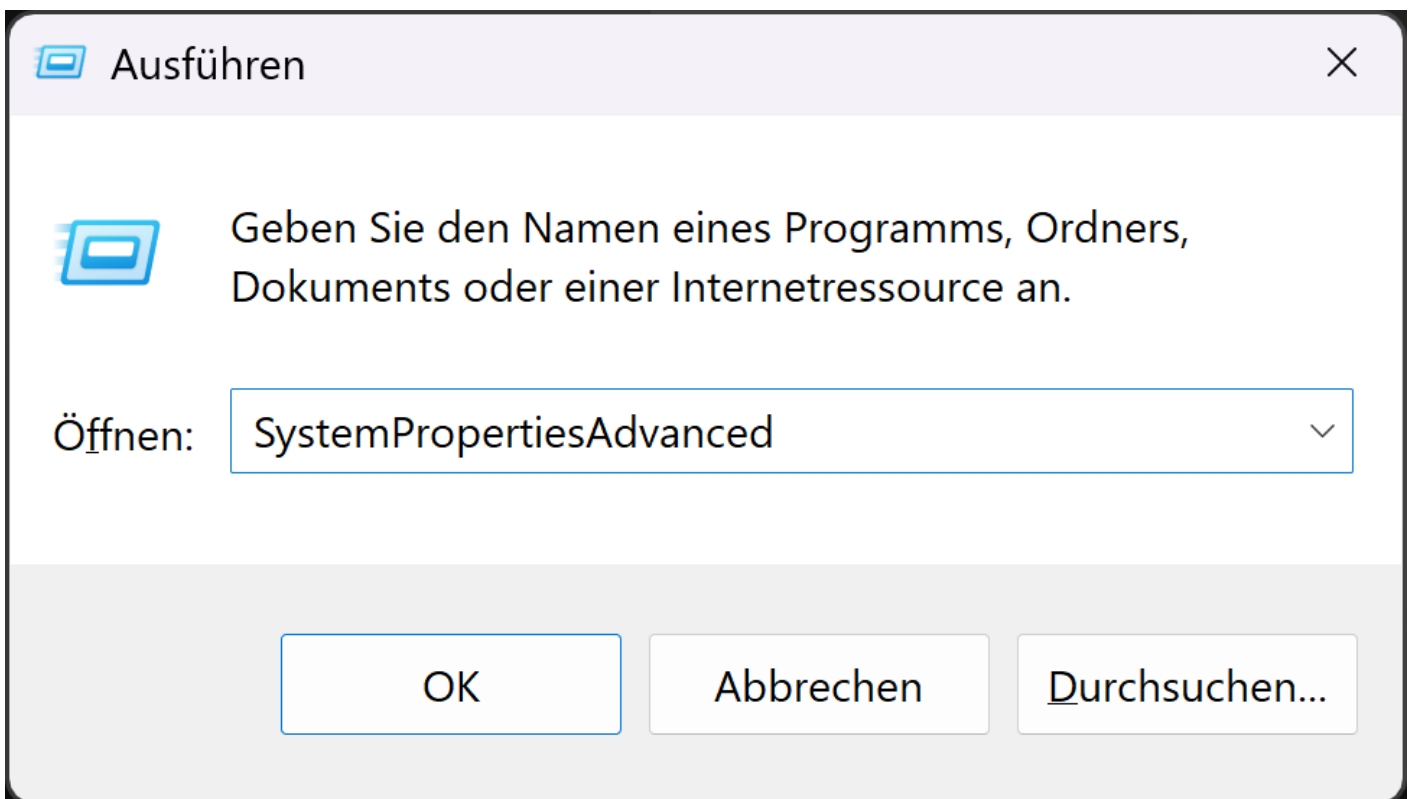
- Error Diagnosis
 - Enable and Locate Memory Dumps
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- Change Lockscreen Language

Error Diagnosis

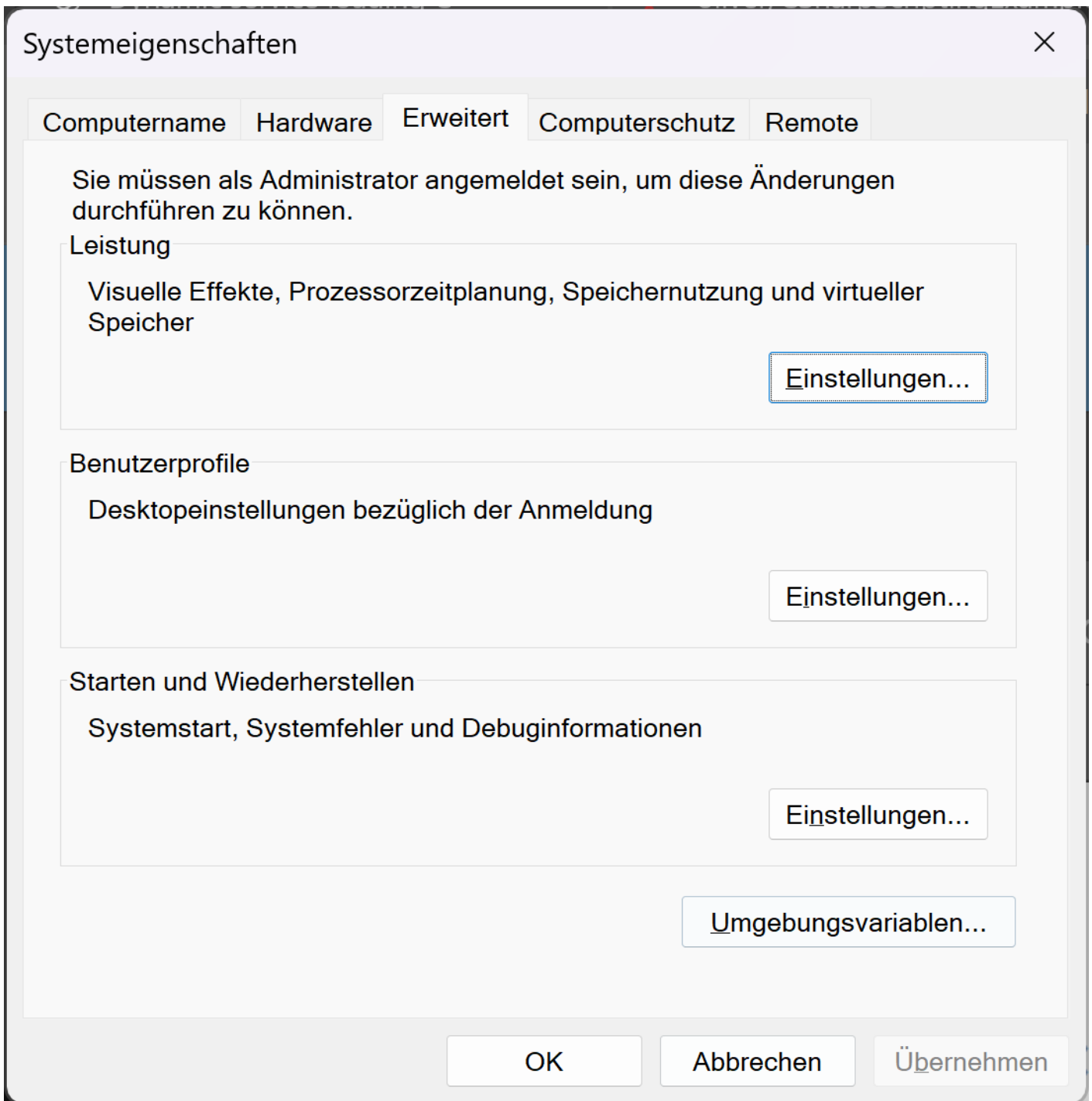
Enable and Locate Memory Dumps

Enable Memory Dumps

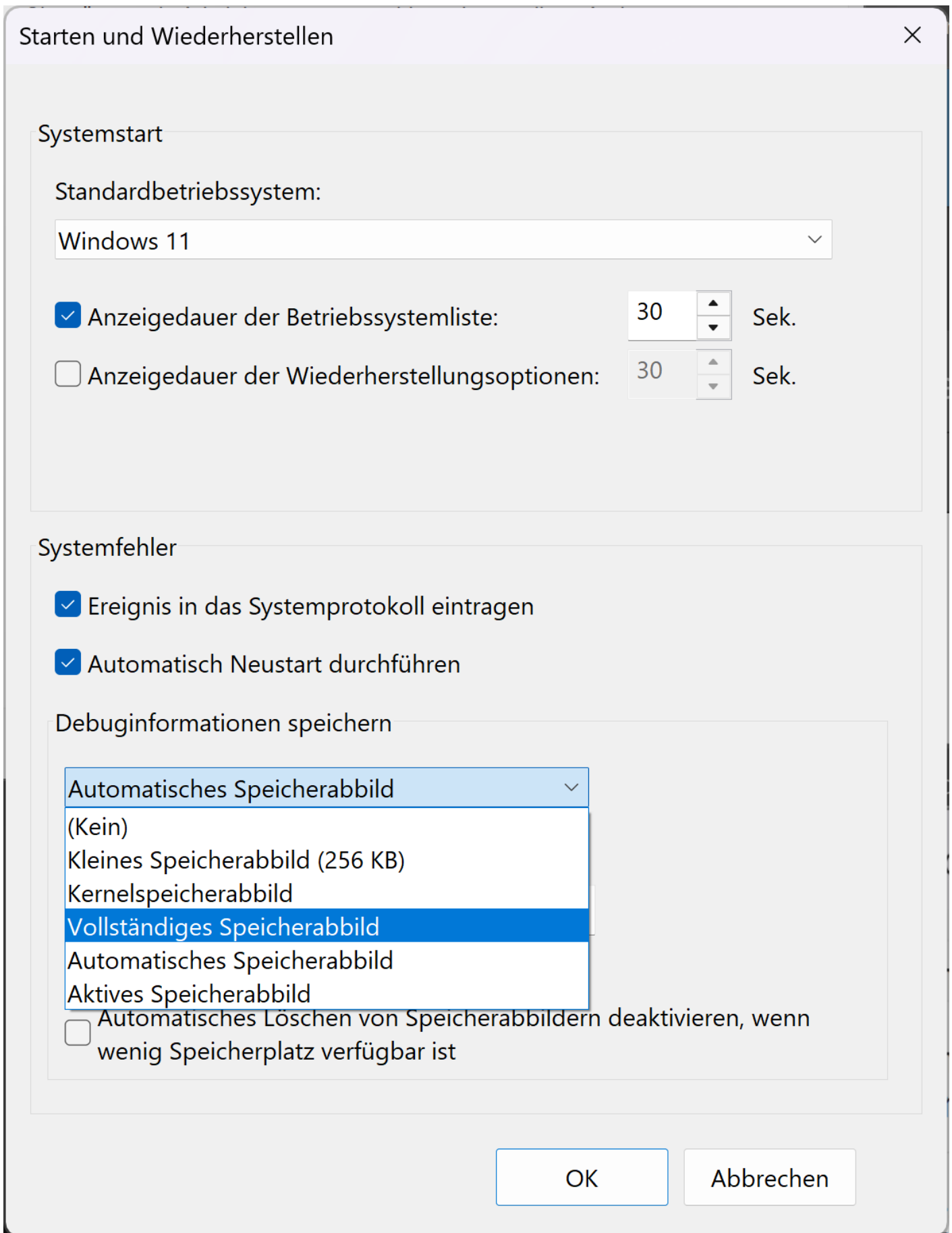
Press Windows-Key + R and enter `SystemPropertiesAdvanced`



go to Tab *Advanced* and click on *Settings* in the Section *Startup and Recovery*



1. At the Dropdown in System Errors, select *Complete Memory Dump*



Locate Memory Dumps

The Path is visible in the last Screenshot as Location on the Windows Disk.

As per Default, it is `%SystemRoot%\MEMORY.DMP` or `C:\Windows\MEMORY.DMP`

System File Integrity Check

The System File Integrity Check (SFC) in Windows is used to validate (and repair) System Files.

Usage

```
SFC [/SCANNOW] [/VERIFYONLY] [/SCANFILE=<Datei>] [/VERIFYFILE=<Datei>]
  [/OFFWINDIR=<Windows-Offlineverzeichnis> /OFFBOOTDIR=<Offlinestartverzeichnis>
  [/OFFLOGFILE=<Protokolldateipfad>]]
```

/SCANNOW Überprüft die Integrität aller geschützten Systemdateien und repariert ggf. problematische Dateien.

/VERIFYONLY Überprüft die Integrität aller geschützten Systemdateien. Es erfolgt keine Reparatur.

/SCANFILE Überprüft die Integrität der angegebenen Datei und repariert ggf. die Datei, wenn Probleme gefunden werden. Geben Sie den vollständigen Pfad zur <Datei> an.

/VERIFYFILE Überprüft die Integrität der Datei mit dem vollständigen Pfad zur <Datei>. Es erfolgt keine Reparatur.

/OFFBOOTDIR Gibt den Speicherort des Offlinestartverzeichnisses für Offlinereparaturen an.

/OFFWINDIR Gibt den Speicherort des Windows-Offlineverzeichnisses für Offlinereparaturen an.

/OFFLOGFILE Durch Angabe eines Protokolldateipfads kann bei Offlinereparaturen optional die Protokollierung aktiviert werden.

Beispiel:

```
sfc /SCANNOW
sfc /VERIFYFILE=c:\windows\system32\kernel32.dll
sfc /SCANFILE=d:\windows\system32\kernel32.dll /OFFBOOTDIR=d:\ /OFFWINDIR=d:\windows
sfc /SCANFILE=d:\windows\system32\kernel32.dll /OFFBOOTDIR=d:\ /OFFWINDIR=d:\windows
/OFFLOGFILE=c:\log.txt
sfc /VERIFYONLY
```

- Use `sfc /verifyonly` to only Verify Files and not attempt to repair them. This is generally preferred to be the first stop when suspecting damaged/corrupted system files as there is no possibility in harming the system.

- use `sfc /scannow` to both Verify and attempt Repair. This is a destructive Operation so it is suggested to run this only when knowing that this can very well brick the system. While i had only a few occurences where this happened, but nevertheless.

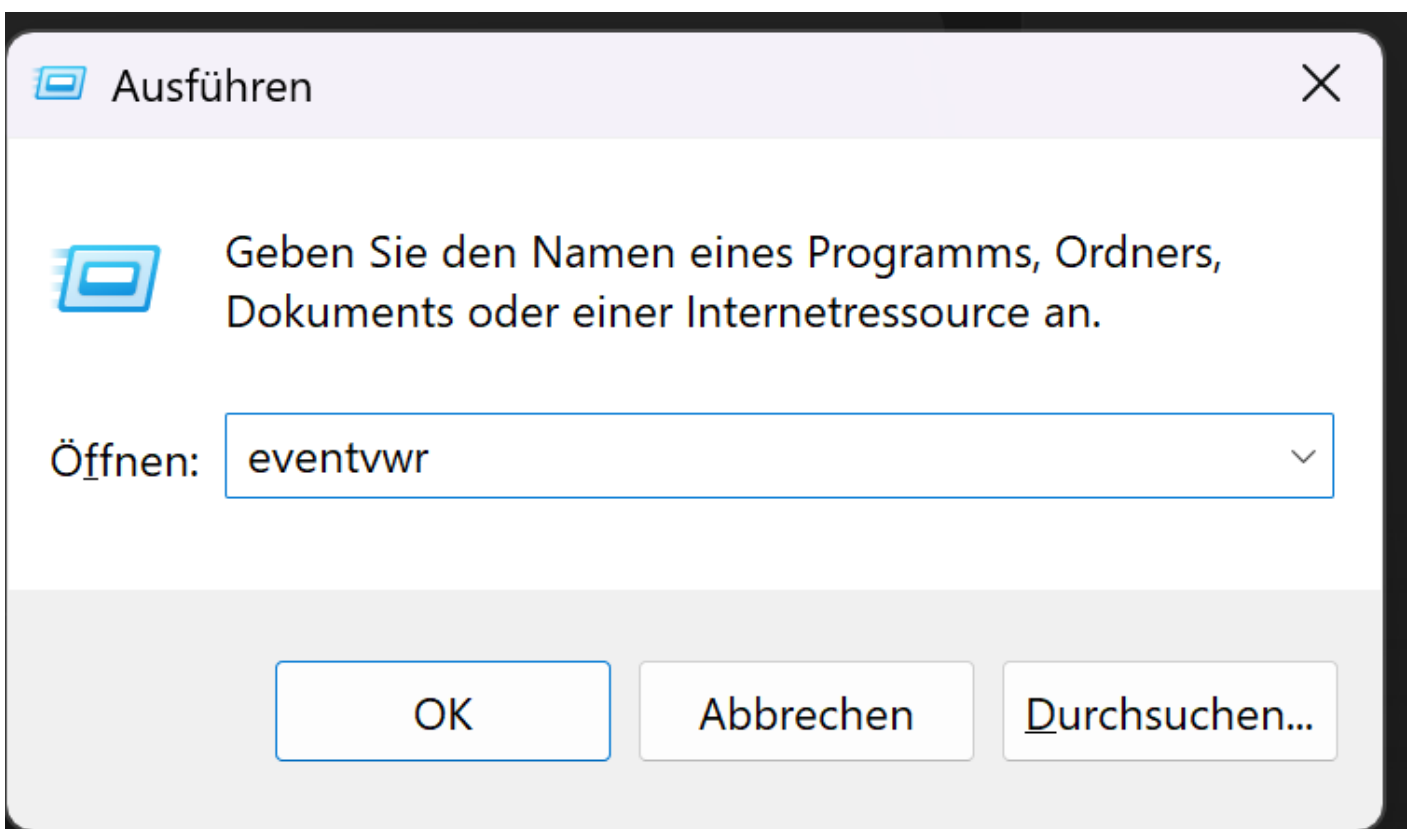
There are also the Options to write a log File using `/OFFLOGFILE`. The Options `/OFFBOOTDIR` and `/OFFWINDIR` are used when a System repair is wanted but Network is not available. These work as offline sources to repair the Files

BSOD in Log Event Viewer

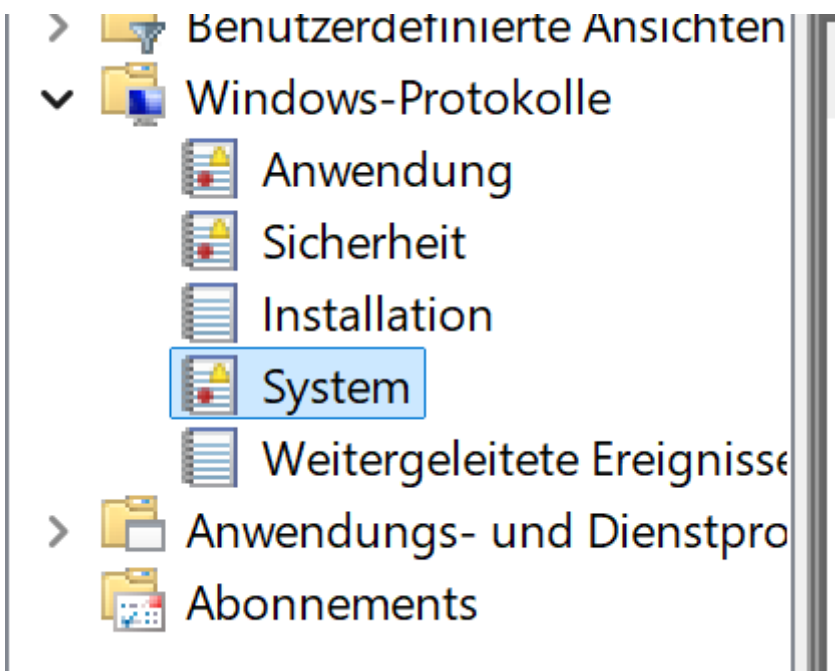
Windows Blue-Screen-of-Death' (BSOD), generally, produce System Log Events of Type *Kernel-Power* and Level *Critical*. Based on them, further Diagnosis like Memory Dumps or Integrity Checks can be performed.

How to Filter System Event Logs

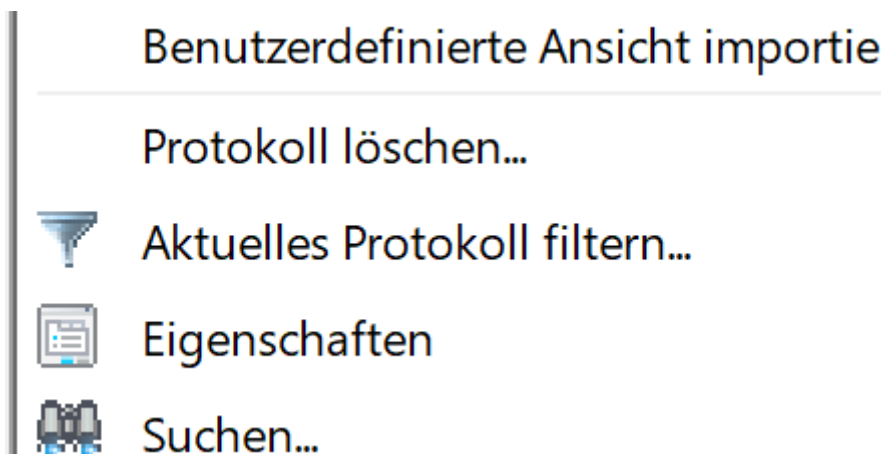
1. Press Windows-Key + R and enter `eventvwr`



Go to *Windows-Protocols* and select *System*



Click on *Filter current Protocol*



Select Event Level *Critical* and set a Timeframe

Filter

XML

Protokolliert: Jederzeit

Ereignisebene: Kritisch Warnung Ausführlich Fehler Informationen Per Protokoll Protokolle: System Per Quelle Quellen:

Ereignis-IDs ein-/ausschließen: Durch Trennzeichen getrennte IDs bzw. ID-Bereiche eingeben. Zum Ausschließen von Kriterien Minuszeichen eingeben, z. B. 1,3,5-99,-76

<Alle Ereignis-IDs>

Aufgaben-
kategorie:

Schlüsselwörter:

Benutzer: <Alle Benutzer>

Computer: <Alle Computer>

Anzeige löschen

OK

Abbrechen



Gefiltert: Protokoll: System; Ebene: Kritisch; Quelle: Anzahl der Ereignisse: 0

Ebene	Datum und Uhrzeit
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If any BSODs occurred, they would be shown here.

Change Lockscreen Language

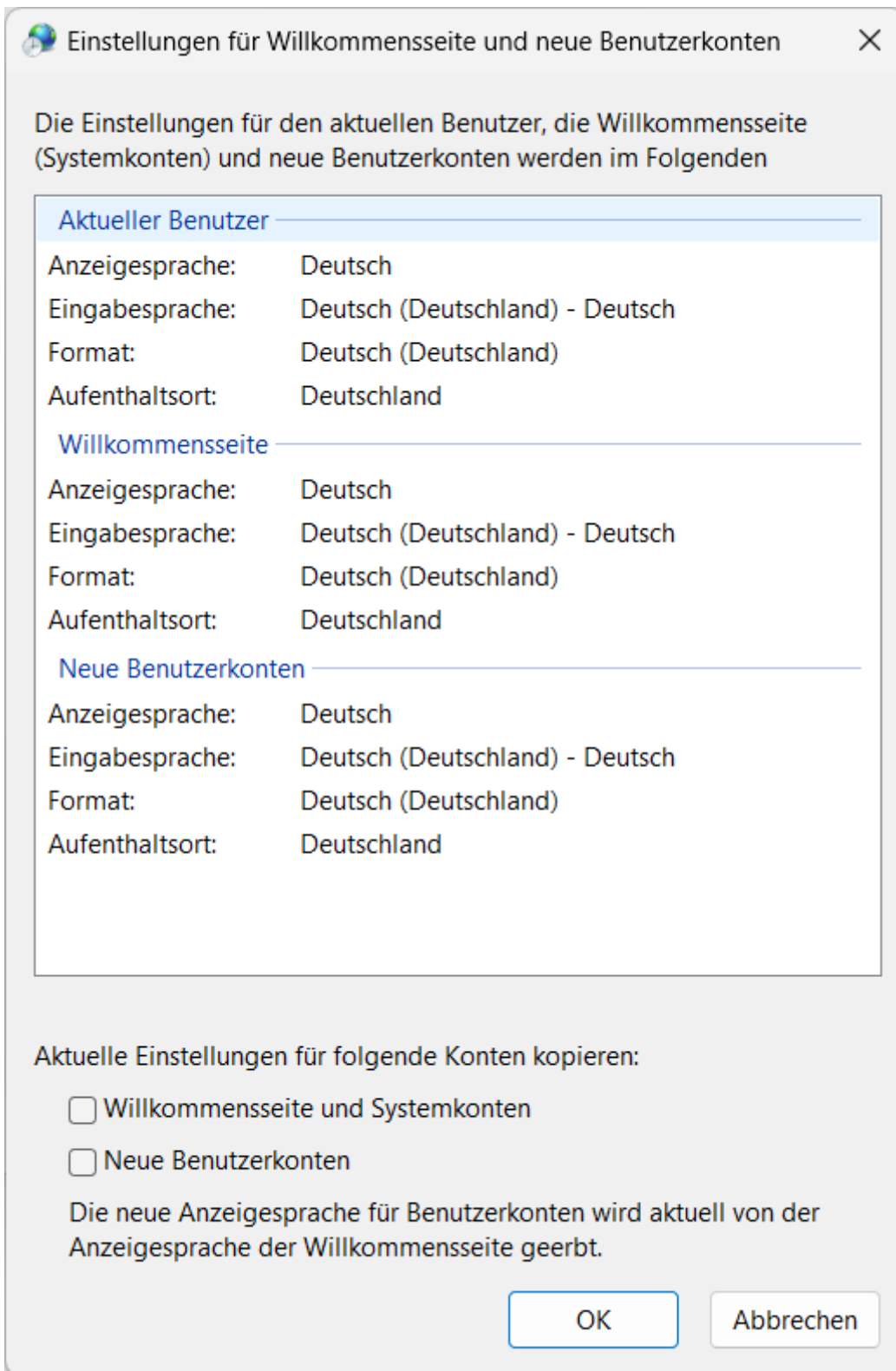
Issue

Whenever the Windows Language Settings are changed, there is a Chance that the Lock Screen Languages are not updated.

This is common (and expected) behavior as this requires manual intervention.

Solution

1. Open Control Panel - Time and Region - Region
2. Go to Administrative - Copy Settings
3. Check Checkboxes "Lockscreen..." and "New User..."



This will copy the current Language Settings to the Lockscreen and set it as Default for new User Accounts